

FIG. 3

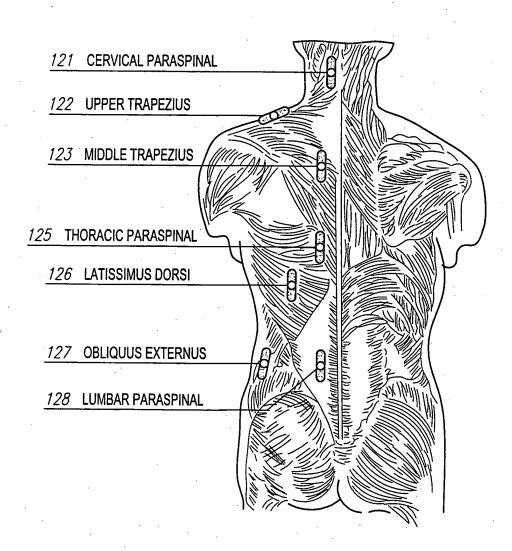
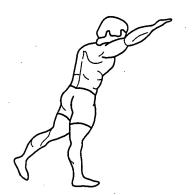
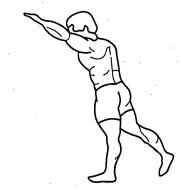


FIG. 4



RIGHT ARM OVERHEAD LEFT LEG BACK

FIG. 5



LEFT ARM OVERHEAD RIGHT LEG BACK

FIG. 6



ARMS OVERHEAD

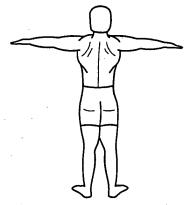
FIG.



TO 90 DEGREES

FIG. 8

FORWARD ARM FLEXION



ARM ABDUCTION TO 90 DEGREES

FIG. 9



SHOULDER SHRUG

FIG. 10



FORWARD BOW TO 45 DEGREES

FIG. 11



TRUNK ROTATION LEFT

FIG. 12



TRUNK ROTATION RIGHT

FIG. 13

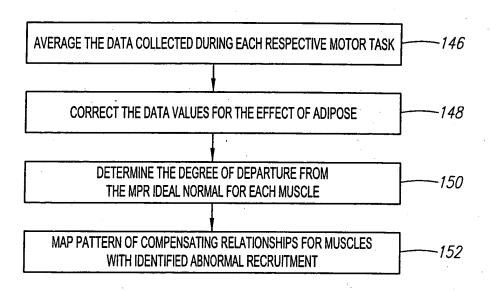


FIG. 14

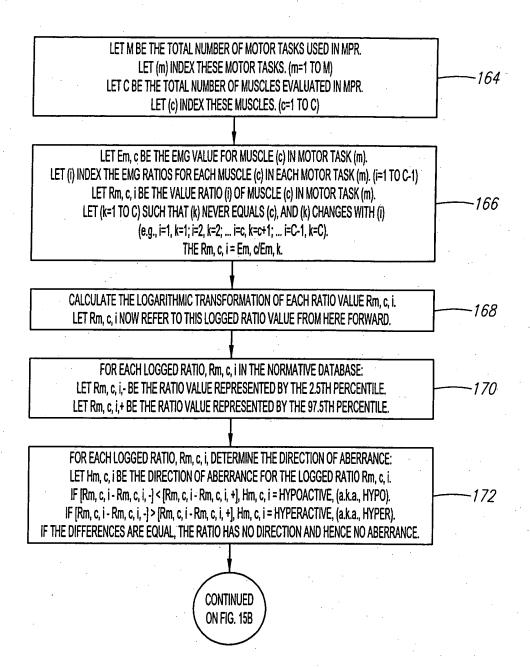


FIG. 15A

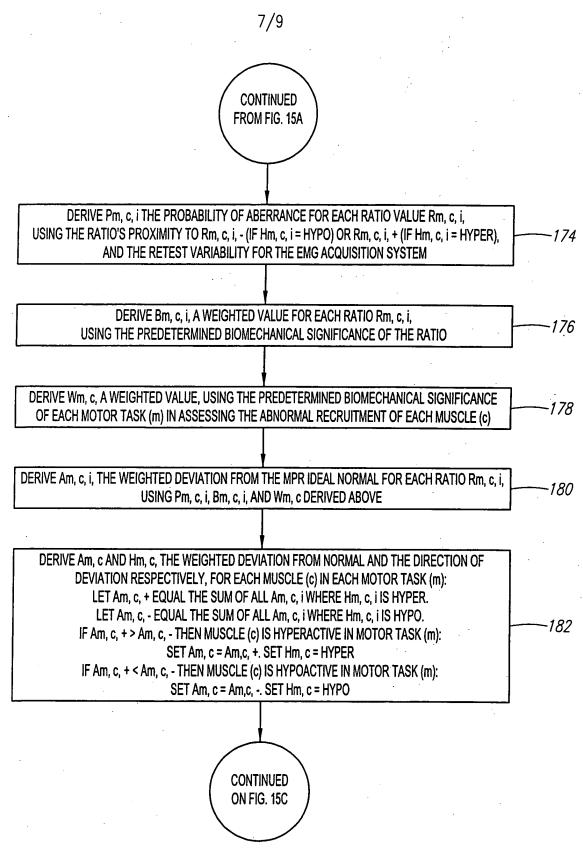
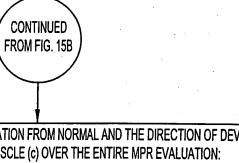


FIG. 15B

184

186

188



DERIVE AC AND HC, THE WEIGHTED DEVIATION FROM NORMAL AND THE DIRECTION OF DEVIATION RESPECTIVELY, FOR EACH MUSCLE (c) OVER THE ENTIRE MPR EVALUATION: LET Ac, + EQUAL THE SUM OF ALL Am, c WHERE Hm, c IS HYPER. LET Ac, - EQUAL THE SUM OF ALL Am, c WHERE Hm, c IS HYPO. IF Ac, + > Ac, - THEN MUSCLE (c) IS HYPERACTIVE OVERALL: SET Ac = Ac, +. SET Hc = HYPER.

IF Ac, + < Ac, - THEN MUSCLE (c) IS HYPOACTIVE OVERALL: SET Ac = Ac, -. SET Hc = HYPO.

NORMALIZE THE AC FOR EACH MUSCLE USING A NORMALIZATION FUNCTION DERIVED FROM THE NORMATIVE DATABASE TO YIELD AN IMPAIRMENT INDEX, IC, FOR EACH MUSCLE. BY VIRTUE OF THIS NORMALIZATION FUNCTION, THE IMPAIRMENT INDEX IS A QUANTITY COMPARABLE BETWEEN DIFFERENT MUSCLES AND BETWEEN DIFFERENT PATIENTS.

DISPLAY THE IMPAIRMENT INDEX (Ic) AND THE OVERALL DIRECTION (Hc) FOR EACH MUSCLE IN THE MPR REPORT. THE IMPAIRMENT INDEX OF EACH MUSCLE REPRESENTS THE OVERALL DEGREE OF DEPARTURE FROM THE MPR IDEAL NORMAL.

FIG. 15C

## ABNORMAL MUSCLE PATTERNS

## OVERALL PATIENT ACTIVITY DURING THE MPR EVALUATION

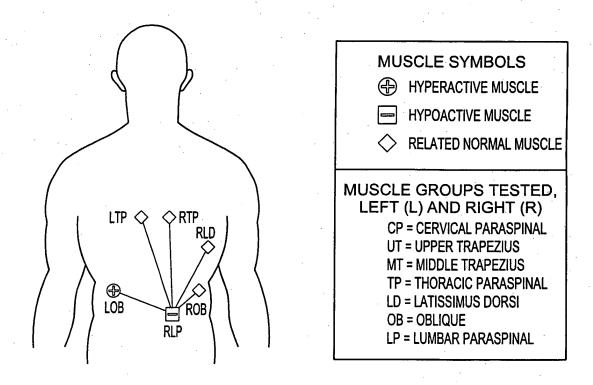


FIG. 16